

CLAIMS

What is claimed is:

- 5 1. An apparatus for replacing a fluid comprising: a fully sealed system interconnected by a means for fluid conduction with a first lower port of a spent fluid container and a second lower port of a new fluid container; a fluid pump interconnected by the fluid conducting means in such manner as to suck air from a first upper port of the spent fluid container, thereby urging spent fluid from the system into the spent fluid container, and a source of air pressure interconnected by the fluid conducting means with a second upper port of the new fluid container for urging new fluid into the system thereby replacing the spent fluid.
- 10 2. The apparatus of claim 1 wherein the source of air pressure is joined to the fluid pump for producing suction therein by the Bernoulli effect.
- 15 3. An apparatus for replacing brake fluid comprising: a fully sealed system having plural brake cylinders interconnected in parallel by a means for fluid conduction with a first lower port of a spent fluid container and a second lower port of a new fluid container; a fluid pump interconnected by the fluid conducting means in such manner as to suck air from a first upper port of the spent fluid container, thereby urging spent fluid from the brake cylinders into the spent fluid container, and a source of air pressure interconnected by the fluid conducting means with a second upper port of the new fluid container for urging new fluid into the brake cylinders thereby replacing the spent fluid.
- 20 4. The apparatus of claim 3 wherein the source of air pressure is interconnected with the fluid pump for producing the Bernoulli effect therein.
- 25 5. The apparatus of claim 3 further comprising a master cylinder interconnected for fluid interchange between the new fluid container and the brake cylinders.
6. The apparatus of claim 3 further comprising a master manifold interconnected for fluid interchange between the brake cylinders and the spent fluid container.
7. The apparatus of claim 6 wherein a stopper is used to seal an inlet of the master cylinder.

8. An apparatus for replacing brake fluid comprising: a fully sealed system having a brake cylinder interconnected by a means for fluid conduction with a first lower port of a spent fluid container and a second lower port of a new fluid container; a fluid pump interconnected by the fluid conducting means in such manner as to suck air from a first upper port of the spent fluid container, thereby urging spent fluid from the brake cylinder into the spent fluid container, and a source of air pressure interconnected by the fluid conducting means with a second upper port of the new fluid container for urging new fluid into the brake cylinder thereby replacing the spent fluid.
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9. The apparatus of claim 1 wherein the source of air pressure is joined to the fluid pump for producing suction therein by the Bernoulli effect.
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10. A method for replacing brake fluid comprising the steps of: providing a fully sealed system having plural brake cylinders; interconnecting the brake cylinders in parallel using a means for fluid conduction, the brake cylinders joined with a first lower port of a spent fluid container and a second lower port of a new fluid container; interconnecting a fluid pump so as to suck air from a first upper port of the spent fluid container, thereby urging spent fluid from the brake cylinders into the spent fluid container; interconnecting a source of air pressure with a second upper port of the new fluid container thereby urging new fluid into the brake cylinders to replace the spent fluid.
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11. The method of claim 10 further comprising the step of interconnecting the source of air pressure with the fluid pump for producing the Bernoulli effect therein.
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12. The method of claim 10 further comprising the step of interconnecting a master cylinder for fluid interchange between the new fluid container and the brake cylinders.
13. The method of claim 10 further comprising the step of interconnecting a master manifold for fluid interchange between the brake cylinders and the spent fluid container.
- 25 14. The method of claim 13 further comprising the step of placing a stopper to seal an inlet of the master cylinder.